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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/327,167	06/07/1999	NAOKI ENOMOTO	684.2848	5127

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EXAMINER

GRAINGER, QUANA MASHELL

ART UNIT PAPER NUMBER

2852

DATE MAILED: 11/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application N .

09/327167

Applicant(s)

Enomoto et al.

Examiner

Quana Grainger

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- ☐ Responsive to communication(s) filed on _____.
- ☐ This action is FINAL. ☒ This action is non-final.
- ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

50-75, 78-84

- ☒ Claim(s) 1-2, 5-14, 16-30, 33-47 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

- ☐ Claim(s) _____ is/are allowed.

- ☒ Claim(s) 1-2, 5-14, 16-30, 33-47, 50-75, 78-84 is/are rejected.

- ☐ Claim(s) _____ is/are objected to.

- ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- ☐ The specification is objected to by the Examiner.
- ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____

- ☐ Interview Summary (PTO-413) Paper No(s) _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 5-8, 10-14, 16-31, 33-47, 50-72, 74-75, and 78-84 are rejected under 35 U.S.C. 102(b) as being anticipated by Schlueter, Jr. et al. The image forming apparatus by Schlueter, Jr. et al. comprising image bearing means for bearing a toner image; an intermediary transfer member, wherein the toner image is electrostatically transferred from said image bearing means onto said intermediary transfer member, and then transferred from said intermediary transfer member onto a transfer material; wherein said intermediary transfer member includes a first layer, a second layer on said first layer and a third layer on said second layer, for receiving the toner image from said image bearing means (Figure 6), and wherein a volume resistivity of said first layer is smaller than that of said third layer, and a volume resistivity of said third layer is smaller than that of said second layer (column 4, lines 11-13, lines 18-23, column 6, lines 25-27, column 7, lines 9-11, 60-66, column 8, lines 1-8; column 11, lines 54-62). The apparatus further has transfer means for electrostatically transferring the toner image from said image bearing means onto said intermediary transfer member, wherein said transfer means applied a

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voltage to such a side of said intermediary transfer member as is opposite from a side thereof for receiving the toner image. The intermediary transfer member is in the form of a belt (Figure 6). The voltage has a polarity opposite from a regular charging polarity of the toner to cause the transfer of the toner from the image bearing member to the intermediate transfer member. The transfer means is provided with a voltage source for supplying the voltage. The image bearing means is provided with an image bearing member capable of bearing different color toner images. The transfer means for applying a voltage to said first layer to electrostatically transfer the toner image to said intermediary transfer member from said image bearing member. The first layer is coated with said second layer. The second layer is coated with said third layer. The first layer is coated with said second layer, and said second layer is coated with said third layer.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 9 and 73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schlueter, Jr. et al. in view of Takekoshi et al. Schlueter, Jr. et al. does not teach an apparatus that has supporting means for supporting said intermediary transfer member and the supporting means is provided with a plurality of rollers.

Takekoshi et al. teaches an apparatus wherein the image bearing means is provided with a plurality of lineage bearing, members. Takekoshi et al. teaches an image forming apparatus having either a plurality of image bearing members or a single image bearing member and a transfer means.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the teaching of Takekoshi et al. with the image forming apparatus of Schlueter Jr. et al. since the examiner takes official notice of the equivalence of a color image forming apparatus having a single image bearing member and a plurality of image bearing members and the selection of any of these known equivalents to provide a color image forming apparatus would be within ordinary skill in the art.

Response to Arguments

5. Applicant argues that the applied art, Schlueter, Jr. et al. does not teach the claimed range.

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However, the taught ranges for the first, second, and third layers encompasses the claimed ranges. Schlueter, Jr. et al. teaches 10^6 for the first layer; a range of 10^7 - 10^{11} for the second layer; and 10^{10} - 10^{12} for the third layer. Thus, within the range taught by Schlueter, Jr. et al., a first layer of 10^6 , a second layer of 10^{11} and a third layer of 10^{10} may be selected. This configuration which is taught by Schlueter, Jr. et al. meet the limitations of the claims.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana Grainger whose telephone number is 703-308-7616. The examiner can normally be reached on weekdays between the hours of 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on 703-308-1373. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431.


Quana Grainger
Primary Examiner
Art Unit 2852

QG
November 20, 2003